

APPENDIX 1
MARKED-UP VERSION OF AMENDED CLAIMS (37 CFR 1.121)

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1. (Once Amended) A plant for the continuous washing of plastic material in scales, of the type comprising a washing apparatus [(1)] equipped with at least one rotating stirrer [(2)] and containing a washing fluid, at least one filtering unit [(50)] connected to said apparatus for purifying said washing fluid, a device [(5)] for feeding said scales to said washing apparatus [(1)], a device for withdrawing said scales from said washing apparatus and a plurality of conduits to connect in fluid communication said washing apparatus [(1)] and said filtering unit [(50)] with a circuit in which said washing fluid flows, [characterized by comprising means (20, 6, 36)] including means for varying the time said scales remain in said washing apparatus [(1)] as a function of the quantity of scales contained at the same moment in said washing apparatus.
2. (Once Amended) A plant according to Claim 1, [characterized in that] wherein said rotating stirrer [(2)], said device [(5)] for feeding said scales and said device [(35)] for withdrawing said scales are operated by respective electric motors [(6, 36)].
3. (Once Amended) A plant according to Claim 1 [or 2, characterized in that] wherein said means for varying the time said scales remain in said washing apparatus [(1)] comprises at least one first control device [(20)] acting to receive as input a data item representative of the current drawn by the motor [(3)] driving said stirrer [(2)] and to control the driving of said motors [(6, 36)] connected respectively to said device [(5)] for feeding said scales and to said device [(35)] for withdrawing said scales.
4. (Once Amended) A plant according to Claim 1, [characterized by] additionally comprising at least one second control unit for varying the speed of rotation of said stirrer [(2)] as a function of the quantity of scales contained in said washing apparatus [(1)].
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5. (Once Amended) A plant according to Claim 1 [any of the preceding Claims, characterized in that] wherein said washing apparatus [(1)] comprises a closed container [(10)] and is surrounded by a heat-insulating covering shell [(11)] to form a gap [(12)] between [the] an inside wall of said shell [(11)] and [the] an external wall of said container [(10)].

6. (Once Amended) A plant according to Claim 5, [characterized by] additionally comprising means for making a heating fluid to circulate in said gap.

7. (Once Amended) A plant according to Claim 1 [any of the preceding Claims, characterized in that] wherein said washing fluid consists of an aqueous solution.

8. (Once Amended) A plant according to Claim 1 [any of the preceding Claims, characterized by] additionally comprising a conduit of readmission [(94)] that carries at least one fraction of the washing fluid purified by said at least one filtering unit [(50)] to said device [(35)] for withdrawing said scales from said washing apparatus [(1)], the remaining fraction of said fluid being reintroduced directly into said washing apparatus [(1)].

9. (Once Amended) A plant according to Claim 8, [characterized by] additionally comprising at least one heat exchanger device [(17)] located along said conduit of readmission [(16, 19, 91, 93, 94)] to control the temperature of said washing fluid by means of a heating fluid.

10. (Once Amended) A plant according to Claim 8, [characterized by] additionally comprising at least one device [(100)] located along said conduit of readmission [(16, 19, 91, 93, 94)] for monitoring the pH of said washing fluid.

11. (Once Amended) A plant according to Claim 8, [characterized by] additionally comprising at least one station [(110)] located along said conduit of readmission [(16, 19, 91, 93, 94)] for adding one or more chemical products to the aqueous solution that constitutes said washing fluid.

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12. (Once Amended) A plant according to Claim 6 [or 9, characterized in that] wherein said heating fluid introduced into said gap [(12)] and in said heat exchanger device [(17)] consists of high temperature steam.
13. (Once Amended) A plant according to Claim 1 [any of the preceding Claims, characterized in that] wherein said at least one filtering unit [(50)] comprises at least one fine-pore filtering element [(51)].
14. (Once Amended) Method for washing plastic material in scales, of the type providing the feeding and the withdrawing of said scales in a continuous way to a washing apparatus [(1)] equipped with at least one rotating stirrer [(2)] and containing a washing fluid, characterized by providing the regulation of the time said scales remain in said washing apparatus [(1)] as a function of the quantity of scales contained at that same moment in said washing apparatus [(1)].
15. (Once Amended) A method according to Claim 14, characterized in that the time said scales remain in said apparatus is regulated by acting on the quantity of scales fed to said washing apparatus [(1)] and on the quantity of scales withdrawn from said washing apparatus [(1)].
16. (Once Amended) A method according to Claim 14, characterized by further providing the regulation of the speed of rotation of said stirrer [(2)] as a function of the quantity of scales contained at that same moment in said washing apparatus.
17. (Once Amended) A method according to Claim 14, characterized in that said washing apparatus [(1)] comprises a substantially closed container [(11)] in which said washing fluid and said scales are maintained at a substantially constant temperature by means of a heating fluid that circulates in contact with [the] an external surface of said container.
18. (Once Amended) A method according to Claim 14, characterized by providing for the purification of said washing fluid by means of a filtering unit [(50)] comprising at least one fine-pore filtering element [(51)].

19. (Once Amended) A method according to Claim 14, characterized by providing for the control of the temperature of said washing fluid leaving said filtering unit [(50)] before its readmission into said washing apparatus [(1)].

20. (Once Amended) A method according to Claim 14, characterized by providing for the control of the pH of said washing fluid and the addition of chemical mixtures to said washing fluid leaving said filtering unit [(50)] before its readmission into said washing apparatus [(1)].

21. (Once Amended) A method according to Claim 14, characterized in that at least one fraction of said washing fluid is readmitted in counter-current with respect to the flow of said scales in a device [(35)] for withdrawing said scales from said washing apparatus.

22. (Once Amended) A method according to Claim 14, characterized by maintaining a quantity of said washing fluid in said washing apparatus [(1)] that is proportional to the quantity of scales present at that same moment in said washing apparatus [(1)].

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